		<u> </u>
DETAIL	BID ITEMS	MAJOR INCIDENTALS
	(Not all items always required)	
10.10.10.10.1.		
10-10-1 Silt Barrier- Bale	Silt Barrier- Bales & Fence	Equipment
		Labor
		Maintenance
		Materials for Installation
10-10-2 Silt Barrier- Fence	Silt Barrier - Bales & Fence	Equipment
		Labor
		Maintenance
		Materials for Installation
		Removal
		Subgrade Preparation
10-20-1 Silt Check-	Silt Check - Geotextile Bags	Equipment
Geotextile Bags		Labor
		Materials for Installation
10-20-2 Silt Check- Rock	Filter Fabric	Equipment
	No. 2 Stone Backfill	Labor
	Class II / III	Maintenance
		Materials for Installation
		Removal
	I	
10-30-1 Silt Trap- Type A	Silt Trap - Type A & B	Baffles / Turbidity
Temporary		Curtains
		Earthwork
		Equipment
		Labor
		Maintenance
		Materials for Installation
		Removal & Reclamation
		Removal & Reclamation
10-30-2 Silt Trap- Type B	Silt Trap - Type A & B	Baffles / Turbidity
Temporary	Sill Hap - Type A & B	Curtains
1 chiporary		Class II / III
		Earthwork
		Equipment
		Labor
		Maintenance
		Materials for Installation
		Removal & Reclamation

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
10-30-3 Silt Trap- Type A	Silt Trap - Type A & B	Earthwork
& B Permanent	Class II / III	Equipment
		Labor
		Maintenance
		Materials for Installation
		Revegetation
		110.080001011
10-30-4 Geotextile Filter		
Bag	Added When Needed	
Bug	<u> </u>	<u> </u>
10-40-1 Gabion Weir	Silt Control Gabion	Earthwork
10 40 1 Gabion Wen	Geo-Grid	Equipment
	Class II / III	Labor
		Maintenance
	Cyclopean Rip-rap	Materials for Installation
		Revegetation
	I a	T
10-50-1 Perimeter Dike &	Site Preparation	Earthwork
Swale	Earthwork	Equipment
	Erosion Control Blanket- ECB	Labor
	Seedbed Preparation	Maintenance
	Agricultural Limestone	Materials for Installation
	Fertilizer	
	Seed	
	Mulch- Stray & Hay (If ECB not	
	used)	
	Cover Crop	

DETAIL	BID ITEMS	MAJOR INCIDENTALS
DETAIL	(Not all items always required)	WINGON INCIDENTIALS
21 10 1 ECD D: '		
21-10-1 ECB Diversion	Silt Barrier - Bales & Fence	Earthwork
W/ Berm	Erosion Control Blanket- ECB	Equipment
	Seedbed Preparation	Labor
	Agricultural Limestone	Materials for Installation
	Fertilizer	Subgrade Preparation
	Seed	
21 10 2 ECD D': 1    17		
21-10-2 ECB Ditch- "V"	Erosion Control Blanket- ECB	Equipment
	Seedbed Preparation	Labor
	Agricultural Limestone	Materials for Installation
	Fertilizer	Subgrade Preparation
	Seed	
21 10 2 ECD D'tal. Caral	English Control Display ECD	F
21-10-3 ECB Ditch- Swale	Erosion Control Blanket- ECB	Equipment
	Class II / III	Labor
	Seedbed Preparation	Materials for Installation
	Agricultural Limestone	Subgrade Preparation
	Fertilizer	
	Seed	
21-10-4 ECB Ditch- Flat	Silt Barrier - Bales & Fence	Equipment
Bottom	Erosion Control Blanket- ECB	Labor
Bottom	Class II / III	Materials for Installation
	Seedbed Preparation	Subgrade Preparation
	Agricultural Limestone	Subgrade Treparation
	Fertilizer	
	Seed	
	Deed	
21-10-5 ECB Channel	_	_
Installation	NA	NA
mountain	1	1
21-20-1 Class II Ditch-	Filter Fabric	Equipment
Flat Bottom	Geo-Grid	Excavation and disposal
	Erosion Control Blanket- ECB	of acidic subsoil
	Class II / III	Labor
	Seedbed Preparation	Materials for Installation
	Agricultural Limestone	Subgrade Preparation
	Fertilizer	- See See See See See See See See See Se
	Seed	
	5000	1

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
21-20-2 Class III Ditch- Flat Bottom	Filter Fabric Geo-Grid Erosion Control Blanket- ECB Class II / III Cyclopean Rip-Rap Onsite Rock Seedbed Preparation Agricultural Limestone Fertilizer Seed	Equipment Excavation and disposal of acidic subsoil Labor Materials for Installation Subgrade Preparation
21-20-3 Inlet And Outlet Ditch Treatment	Concrete Filter Fabric Geo-Grid Class II / III Cyclopean Rip-Rap Onsite Rock	Earthwork Equipment Labor Materials for Installation Subgrade Preparation
21-30-1 Concrete Block- Tied Mat	Concrete (Only for extra anchors, initial one incidental) Concrete Block- Tied Mat Seedbed Preparation Agricultural Limestone Fertilizer Seed	Anchors Concrete (Initial anchor) Equipment Geo-grid Labor Materials for Installation Subgrade Preparation
21-40-1 Gabion Ditch- "V"	Filter Fabric Geo-Grid Erosion Control Blanket- ECB Gabion "V" & Trapezoidal Ditch Seedbed Preparation Agricultural Limestone Fertilizer Seed	Class II Backfill Earthwork Equipment Labor Materials for Installation Subgrade Preparation
21-40-2 Gabion Ditch- Trapezoidal 3', 6', 9' Width	Filter Fabric Geo-Grid Erosion Control Blanket- ECB Gabion "V" & Trapezoidal Ditch Seedbed Preparation Agricultural Limestone Fertilizer Seed	Class II Backfill Earthwork Equipment Labor Materials for Installation Subgrade Preparation

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
21-40-3 Gabion Ditch- Rectangular 4' Flat Bottom Even Side Heights	Filter Fabric Geo-Grid Erosion Control Blanket- ECB Gabion Rectangular Ditch Seedbed Preparation Agricultural Limestone Fertilizer Seed	Class II Backfill Earthwork Equipment Labor Materials for Installation Subgrade Preparation
21-40-4 Gabion Ditch- Rectangular 4' Flat Bottom Uneven Side Heights	Filter Fabric Geo-Grid Erosion Control Blanket- ECB Gabion Rectangular Ditch Seedbed Preparation Agricultural Limestone Fertilizer Seed	Class II Backfill Earthwork Equipment Labor Materials for Installation Subgrade Preparation
21-40-5 Gabion Ditch- Rectangular 6' & 8' Flat Bottom	Filter Fabric Geo-Grid Erosion Control Blanket- ECB Gabion Rectangular Ditch Seedbed Preparation Agricultural Limestone Fertilizer Seed	Class II Backfill Earthwork Equipment Labor Materials for Installation Subgrade Preparation
21-50-1 Concrete Ditch- Swale	60 KSI Reinforcing Steel Concrete Dense Grade Aggregate	Concrete Concrete Admixture Concrete Finishing Equipment Fiber Formwork Labor Materials for Installation Subgrade Preparation
21-50-2 Concrete Ditch- Trapezoidal	60 KSI Reinforcing Steel Concrete Filter Fabric Geo-Grid Dense Grade Aggregate	Concrete Concrete Admixture Concrete Finishing Equipment Fiber Formwork Labor Materials for Installation Subgrade Preparation

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DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
	<b>V</b> 1 /	
21-50-3 Concrete Ditch- Rectangular	60 KSI Reinforcing Steel Concrete Filter Fabric Geo-Grid Concrete Ditch- Rectangular Grate and Anchor	Concrete Admixture Concrete Finishing Equipment Fiber Formwork Materials for Installation
	Flowable Fill	Subgrade Preparation Weep hole Pipes
	1	I F
21-60-1 Excavated Rock Ditches	Hoe Ram Earthwork	Equipment Labor
21-70-1 ECB Anchor- Swale Ditch Seams	Class II / III	Equipment Labor Materials for Installation
		1
21-70-2 ECB Anchor- FB Ditch Seams	Class II / III	Equipment Labor Materials for Installation
21-70-3 Gabion Ditch Anchors	NA (Part of Gabion Ditch Items)	NA
21-70-4 Concrete Weir / Anchors	Concrete Weir	Concrete Concrete Admixture Concrete Finishing Earthwork Equipment
		Fiber Formwork Labor Materials for Installation Steel Subgrade Preparation
		Subgrade Preparation

	DID ITEMS	T
DETAIL	BID ITEMS	MAJOR INCIDENTALS
	(Not all items always required)	
22-10-1 Rock Toe Buttress	Filter Fabric	Equipment
	Geo-Grid	Equipment Labor
& Drain- Type 1	Hoe Ram	Materials for Installation
		Waterials for installation
	Earthwork	
	Class II / III	
	Cyclopean Rip-Rap	
	Onsite Rock	
22 10 2 D 1 T D 11		In .
22-10-2 Rock Toe Buttress	Filter Fabric	Equipment
& Drain- Type 2	Hoe Ram	Labor
	Earthwork	Materials for Installation
	Class II / III	
	Cyclopean Rip-Rap	
	Onsite Rock	
		T .
22-20-1 Rock Core Drain	Rock Core Drain	Aggregate
		Equipment
		Filter Fabric
		Labor
		Materials for Installation
22-30-1 Subdrain	No. 2 Stone Backfill (Quantity over 5' Deep)	Backfill Aggregate (up to 5' deep)
	Hoe Ram	Earthwork (up to 5' deep)
	Earthwork (Quantity over 5'	Equipment
	Deep)	Filter Fabric
	Subdrain	Labor
		Materials for Installation
		Pipe
22-30-2 Subdrain Collar	Subdrain Concrete Collars	Concrete
		Concrete Admixture
		Earthwork
		Equipment
		Fiber
		Formwork
		Labor
		Materials for Installation
		1.1atoriais for motunation

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
		<u>,                                      </u>
22-30-3 Combination ECB	No. 2 Stone Backfill (Quantity	Backfill Aggregate (up to
Ditch-Drain	over 5' Deep)	5' deep)
	Hoe Ram	Earthwork (up to 5' deep)
	Erosion Control Blanket- ECB	Equipment
	Seedbed Preparation	Filter Fabric
	Agricultural Limestone	Labor
	Fertilizer	Materials for Installation
	Seed	Pipe
	Revegetation (LS)	
	Residential Seeding	
22-30-4 Combination	No. 2 Stone Backfill (Quantity	Backfill Aggregate (up to
Rock Ditch-Drain	over 5' Deep)	5' deep)
	Hoe Ram	Earthwork (up to 5' deep)
	Erosion Control Blanket- ECB	Equipment
	Class II / III	Filter Fabric
		Labor
		Materials for Installation
		Pipe

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS	
	, ` <b>v</b> 1 / 1		
23-10-1 Concrete  Headwalls- 12"- 27" Circular Standard & "Ell"	Concrete Headwall- Pipes 36" Dia. and Smaller	Backfill Aggregate Concrete Concrete Admixture Concrete Finishing Earthwork Equipment Fiber Formwork Labor Materials for Installation Steel	
23-10-2 Concrete Headwalls- 12"- 27" Elliptical Standard & "Ell"	Concrete Headwall- Pipes 36" Dia. and Smaller	Backfill Aggregate Concrete Concrete Admixture Concrete Finishing Earthwork Equipment Fiber Formwork Labor Materials for Installation Steel	
23-10-3 Concrete Headwalls- 12"- 27" Dimensions And Quantities	NA	NA	
23-10-4 Concrete Headwalls- U- Type	Concrete Headwall- Pipes 36" Dia. and Smaller Concrete Headwall- Pipes greater than 36" Dia.	Backfill Aggregate Concrete Concrete Admixture Concrete Finishing Earthwork Equipment Fiber Formwork Labor Materials for Installation Steel	

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DETAIL	BID ITEMS	MAJOR INCIDENTALS
	(Not all items always required)	
22.10.5.0		D 1611 A
23-10-5 Concrete	Concrete Headwall- Pipes 36"	Backfill Aggregate
Headwalls- 12"-	Dia. and Smaller	Concrete
21" Sloped &		Concrete Admixture
Parallel		Concrete Finishing
		Earthwork
		Equipment
		Fiber
		Formwork
		Labor
		Materials for Installation
		Steel
23-10-6 Concrete	Concrete Headwall- Pipes 36"	Backfill Aggregate
Headwalls- 12"-	Dia. and Smaller	Concrete
27" Sloped &		Concrete Admixture
Flared		Concrete Finishing
		Earthwork
		Equipment
		Fiber
		Formwork
		Labor
		Materials for Installation
		Steel
23-10-7 Concrete	Concrete Headwall- Pipes greater	Backfill Aggregate
Headwalls-≥30"	than 36" Dia.	Concrete
Pipe		Concrete Admixture
		Concrete Finishing
		Earthwork
		Equipment
		Fiber
		Formwork
		Labor
		Materials for Installation
		Steel
23-10-8 Concrete		
Headwalls- ≥30"	NA	NA
Pipe Dimensions		
23-10-9 Concrete		
Headwalls-≥30"	NA	NA
Pipe	INA	INA
Reinforcement		

		T
DETAIL	BID ITEMS	MAJOR INCIDENTALS
	(Not all items always required)	
23-10-10 Concrete	Concrete Headwall- Pipes Greater	Backfill Aggregate
Headwall-	Than 36" Dia.	Concrete
Dissipaters		Concrete Admixture
		Concrete Finishing
		Earthwork
		Equipment
		Fiber
		Formwork
		Labor
		Materials for Installation
		Steel
23-10-11 Discharge Area	Grout	Earthwork
Erosion Control	Filter Fabric	Equipment
	Geo-Grid	Labor
	Erosion Control Blanket- ECB	Materials for Installation
	Class II / III	
	Cyclopean Rip-Rap	
	Onsite Rock	
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
23-20-1 Concrete	Concrete Headwall- Multi Barrel	Backfill Aggregate
Headwall- 18"-		Concrete
24" Multiple		Concrete Admixture
Barrel		Concrete Finishing
201101		Concrete Masonry
		Coating
		Earthwork
		Equipment
		Fiber
		Formwork
		Labor
		Materials for Installation
		Steel
		Subgrade Preparation
		Subgraue i reparation

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
23-20-2 Concrete Headwall- 30" - 48" Double Barrel	Concrete Headwall- Multi Barrel	Backfill Aggregate Concrete Concrete Admixture Concrete Finishing Concrete Masonry Coating Earthwork Equipment Fiber Formwork Labor Materials for Installation Steel Subgrade Preparation
23-20-3 Concrete Headwall- 30" - 48" Triple Barrel	Concrete Headwall- Multi Barrel	Backfill Aggregate Concrete Concrete Admixture Concrete Finishing Concrete Masonry Coating Earthwork Equipment Fiber Formwork Labor Materials for Installation Steel Subgrade Preparation
23-20-4 Concrete Headwall- Multiple Pipe Dimensions	NA	NA
23-20-5 Concrete  Headwall-  Multiple Pipe  Reinforcement	NA	NA
23-30-1 Gabion Headwall	Filter Fabric Geo-grid Gabion Headwall	Earthwork Equipment Filter Fabric Geo-grid Labor Materials for Installation

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
23-40-1 CMP Joints	NA	Incidental to CMP
23-40-2 Intermediate And End Culvert Anchor	Concrete	Concrete Concrete Admixture Earthwork Equipment Formwork Labor Materials for Installation
23-50-1 Slotted Pipe Bedding	Flowable Fill Bituminous Repair	Aggregate Backfill Earthwork Equipment Labor Materials for Installation
23-50-2 Pipe Bedding- Non-Trenching Conditions	NA	NA
23-50-3 Pipe Bedding- Trenching Conditions	NA	NA
23-50-4 Pipes Cover Depths Chart Key & Notes	NA	NA
23-50-5 Circular Pipe Cover Depths	NA	NA
23-50-6 Non-Circular Pipe Cover Depths & Equivalent Circular Pipe Diameters	NA	NA
23-60-1 Culvert Debris Barrier	Culvert Debris Barrier	Concrete Concrete Admixture Equipment Labor Materials for Installation Steel

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
23-60-2 In-Stream Culvert Debris Barrier	In-Stream Culvert Debris Barrier	Concrete Concrete Admixture Equipment Labor Materials for Installation
		Steel

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
	(Not all Items always required)	
24-10-1 Drop Box - Inlet	Hoe Ram	Backfill Aggregate
Type 1	Drop Box	Concrete
	Flowable Fill	Concrete Admixture
		Concrete Finishing
		Concrete Masonry Coating
		Coating Cover (Lid / Grate)
		Earthwork
		Equipment
		Formwork
		Labor
		Materials for Installation
		Paint
		Steel
	1	
24-10-2 Drop Box - Inlet	Hoe Ram	Backfill Aggregate
Type 2	Drop Box	Concrete
	Flowable Fill	Concrete Admixture
		Concrete Finishing
		Concrete Masonry
		Coating
		Cover (Lid / Grate)
		Earthwork
		Equipment
		Formwork
		Labor
		Materials for Installation
		Paint
		Steel
24-10-3 Drop Box - Inlet	Hoe Ram	Backfill Aggregate
Type 3	Drop Box	Concrete
- 7,5- 0	Flowable Fill	Concrete Admixture
		Concrete Finishing
		Concrete Masonry
		Coating
		Cover (Lid / Grate)
		Earthwork
		Equipment
		Formwork
		Labor
		Materials for Installation
		Paint
		Steel

DETAIL	BID ITEMS	MAJOR INCIDENTALS
DETTIL	(Not all items always required)	WI WORTH (CIDEL (TILES
24-10-4 Drop Box - Grates		
For Inlet Type 2	NA (Incidental to Dropboxes)	NA
& 3		
24-20-1 Junction Box -	Hoe Ram	Backfill Aggregate
Frame And	Junction Box	Concrete
Accessible Lid	Flowable Fill	Concrete Admixture
		Concrete Finishing
		Concrete Masonry
		Coating
		Cover (Lid / Grate)
		Earthwork
		Equipment
		Formwork
		Labor
		Materials for Installation
		Paint
		Steel
		Subgrade Preparation
		Subgrade Freparation
24-20-2 Junction Box-	Hoe Ram	Poolsfill Aggregate
	Junction Box	Backfill Aggregate Concrete
Concrete Top		
	Flowable Fill	Concrete Admixture
		Concrete Finishing
		Concrete Masonry
		Coating
		Cover (Lid / Grate)
		Earthwork
		Equipment
		Formwork
		Labor
		Materials for Installation
		Steel
		Subgrade Preparation
24-20-3 Junction Box	NA	NA
Dimensions	INA	INA

DETAIL	BID ITEMS	MAJOD INCIDENTAL C
DETAIL	(Not all items always required)	MAJOR INCIDENTALS
	,	
24-30-1 Spring Box- Inlet Type A	Hoe Ram Manhole Structure Flowable Fill	Backfill Aggregate Concrete Concrete Admixture Concrete Finishing Concrete Masonry
		Coating Cover (Lid / Grate) Earthwork Equipment Formwork Grate Labor
		Materials for Installation Steel Subgrade Preparation
24 20 2 Spring Poy Inlet	Congrete	Poolefill Aggregate
24-30-2 Spring Box- Inlet Type B	Concrete Hoe Ram Manhole Structure Flowable Fill	Backfill Aggregate Concrete Concrete Admixture Concrete Finishing Concrete Masonry Coating Cover (Lid / Grate) Earthwork Equipment Formwork Grate Labor Materials for Installation Paint Steel Subgrade Preparation
24-40-1 Manhole Type A	NA	NA
, , , , , , , , , , , , , , , , , , ,		•
24-40-2 Manhole Type A- Step Details	NA	NA
24-50-1 Security Devises For Frames, Grates, & Lids	NA	NA

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
30-10-1 Welded-Wire Reinforced Soil Wall	Filter Fabric Geo-Grid No. 2 Stone Backfill Earthwork Erosion Control Blanket- ECB Retaining Wall Subdrain Welded Wire Reinforced Soil Wall Seedbed Preparation Agricultural Limestone Fertilizer Seed Mulch- Straw & Hay Revegetation (LS) Residential Seeding Chain-Link Fence	Equipment Labor Materials for Installation Subgrade Preparation
30-10-2 Welded-Wire Reinforced Soil Wall- Form Facing Units	NA	NA
30-20-1 Non-Reinforced Block Wall- Type I	60 KSI Reinforcing Steel Concrete Filter Fabric Geo-Grid No. 57 Stone Backfill Class II Backfill Hoe Ram Retaining Wall Subdrain Non-Reinforced Concrete Block Wall- Type I Dense Grade Aggregate Chain-Link Fence	Concrete Concrete Admixture Concrete Finishing Earthwork Equipment Formwork Labor Materials for Installation Steel Subgrade Preparation

	BID ITEMS	
DETAIL	(Not all items always required)	MAJOR INCIDENTALS
	(1 tot all items always required)	
30-20-2 Non-Reinforced	60 KSI Reinforcing Steel	Concrete Admixture
Block Wall- Type	Concrete	Concrete Finishing
II	Filter Fabric	Concrete Masonry
	Geo-Grid	Coating
	No. 2 Stone Backfill	Earthwork
	Class II Backfill	Equipment
	Hoe Ram	Formwork
	Retaining Wall Subdrain	Labor
	Non-Reinforced Concrete Block	Materials for Installation
	Wall- Type II	Subgrade Preparation
	Dense Grade Aggregate	Suegrade 110paramen
	Chain-Link Fence	
	·· · · · · · · · · · · · · · · · · ·	
30-20-3 Non-Reinforced		
Block Wall- Type	27.4	27.4
II 90° Outside	NA	NA
Corner		
30-30-1 Steel Pile	Grout	Earthwork
Foundation	Soil Drilling	Equipment
	Rock Drilling	Labor
	Casing	Materials for Installation
	Railroad Rails	
	Steel Piles (W & HP Beams)	
30-30-2 Steel Piles	Grout	Concrete Admixture
Reinforced	60 KSI Reinforcing Steel	Concrete Finishing
Concrete Cap	Concrete	Earthwork
	Soil Drilling	Equipment
	Rock Drilling	Formwork
	Casing	Labor
	Railroad Rails	Materials for Installation
	Steel Piles (W & HP Beams)	
20 40 1 Cabi B 4 i i	Eller a Estrais	E-vald-
30-40-1 Gabion Retaining	Filter Fabric	Earthwork
Walls	Geo-Grid	Equipment Formwork
	Class II Backfill Hoe Ram	Labor
		Materials for Installation
	Class II/III (For Base)	
	Retaining Wall Subdrain	Steel
	Gabion Retaining Wall Chain-Link Fence	
	Chain-Link fence	

	BID ITEMS	
DETAIL	(Not all items always required)	MAJOR INCIDENTALS
	(1 tot an items arways required)	1
30-50-1 Concrete Gravity Wall	60 KSI Reinforcing Steel Concrete Filter Fabric Geo-Grid No. 2 Stone Backfill Class II Backfill	Concrete Admixture Concrete Finishing Concrete Masonry Coating Earthwork Equipment
	Hoe Ram Sheet-Chimney Drain Retaining Wall Subdrain Chain-Link Fence	Formwork Labor Materials for Installation Subgrade Preparation Weep hole Pipes
30-50-2 Concrete Gravity Wall- Notes & Quantities	NA	NA
30-60-1 Reinforced Concrete Wall (Heights From 5' To 20')	60 KSI Reinforcing Steel Concrete Filter Fabric Geo-Grid Class II Backfill Hoe Ram Sheet-Chimney Drain Retaining Wall Subdrain Dense Grade Aggregate Chain-Link Fence	Concrete Admixture Concrete Finishing Concrete Masonry Coating Earthwork Equipment Formwork Labor Materials for Installation Subgrade Preparation Weep hole Pipes
30-60-2 Reinforced Concrete Wall - Construction Notes & Quantities	NA	NA
30-60-3 Reinforced Concrete Wall - Joints & Weep Holes	NA	NA
30-60-4 Reinforced Concrete Wall - Step Footer	NA	NA

	BID ITEMS	1
DETAIL	(Not all items always required)	MAJOR INCIDENTALS
	(1 (ot all nome always required)	
30-60-5 Reinforced Concrete Wall - Bends	NA	NA
	1	
30-60-6 Reinforced Concrete Wall & Grated Trench Drain	60 KSI Reinforcing Steel Concrete Filter Fabric Geo-Grid Grate & Anchor Retaining Wall Subdrain Dense Grade Aggregate Flowable Fill	Concrete Admixture Concrete Finishing Concrete Masonry Coating Earthwork Equipment Formwork Labor
		Materials for Installation
		Weep hole Pipes
30-70-1 Pile & Lagging Wall- Sheet 1	60 KSI Reinforcing Steel Concrete Filter Fabric Geo-Grid No. 2 Stone Backfill Class II Backfill Retaining Wall Subdrain Soil Drilling Rock Drilling Casing Steel Piles (W & HP Beams) Pre-Cast Concrete Lagging Chain-Link Fence	Concrete Admixture Concrete Finishing Concrete Masonry Coating Earthwork Equipment Formwork Labor Materials for Installation Paint
30-70-2 Pile & Lagging Wall- Sheet 2	60 KSI Reinforcing Steel Concrete Soil Drilling Rock Drilling Casing Steel Piles (W & HP Beams)	Concrete Admixture Concrete Finishing Earthwork Equipment Formwork Labor Materials for Installation Paint
30-70-3 Steel Pile- Splicing Details	NA	Equipment Labor Materials for Completion Paint Welding

	DID ITEMS	
DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
	(1 tot all resills arways required)	
30-80-1 Reinforced Concrete Piles & Cap	60 KSI Reinforcing Steel Concrete Soil Drilling Rock Drilling Casing	Concrete Admixture Concrete Finishing Earthwork Equipment Formwork Labor Materials for Installation
30-90-1 Soil Reinforcing Tubes- Sheet 1	Sheet-Chimney Drain Soil Drilling Rock Drilling Soil Reinforcing Tubes Shotcrete Highwall-Slope Rockfall Netting- Light Duty	Concrete Admixture Concrete Finishing Earthwork Equipment Formwork Labor Materials for Installation
30-90-2 Soil Reinforcing	Sheet-Chimney Drain	Concrete Admixture
Tubes- Sheet 2	Soil Drilling Rock Drilling Soil Reinforcing Tubes Shotcrete Highwall-Slope Rockfall Netting- Light Duty	Concrete Finishing Earthwork Equipment Formwork Labor Materials for Installation
		Τ~
40-10-1 Concrete Mine Shaft Monument	Concrete Shaft Monument	Concrete Concrete Admixture Concrete Finishing Concrete Masonry Coating Earthwork Equipment Formwork Labor Materials for Installation Paint Steel
40.10.20.1.11		In .
40-10-2 Subsidence And Mine Backfill	Class II Backfill	Equipment Labor Materials for Installation Revegetation

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
	(Tree and Teems as ways requires)	
40-10-3 Mountain Break Backfill	Pneumatic Backstow- Pea Gravel Polyurethane Foam	Earthwork Equipment Labor Materials for Installation Pipe Revegetation
40.00.1.0: 1.137	D (10)	D 1611 A
40-20-1 Standard Non- Wildlife Accessible Closure	Portal Closure	Backfill Aggregate Earthwork Equipment Filter Fabric Labor Materials for Installation Pipe Revegetation Screen
40-20-2 Standard Wildlife Accessible Closure	Pneumatic Backstow- Pea Gravel Portal Closure	Backfill Aggregate Earthwork Equipment Grate Labor Materials for Installation Pipe Revegetation
40.20.2 Standard Clasuras	Dolymathana Foom	Doolrfill Aggregate
40-20-3 Standard Closures W/ Polyurethane Foam	Polyurethane Foam Portal Closure	Backfill Aggregate Earthwork Equipment Filter Fabric Grate Labor Materials for Installation Pipe Revegetation
40-20-4 Portal Closure W/	Gabion Retaining Wall	Backfill Aggregate
Gabion Retaining Wall	Portal Closure	Earthwork Equipment Filter Fabric Grate Labor Materials for Installation Pipe Revegetation

	BID ITEMS	
DETAIL	(Not all items always required)	MAJOR INCIDENTALS
	(Not all items always required)	
40-20-5 Closure W/	Portal Closure	Concrete Block
Exterior Bars In	1 ortal Closure	Concrete
Concrete Block		Concrete Admixture
Concrete Block		Earthwork
		Equipment
		Labor
		Materials for Installation
		Mortar
		Paint
		Revegetation Steel
		Steel
40-20-6 Closure W/	Portal Closure	Canarata
Exterior Bars Set	Portai Ciosure	Concrete Admixture
		Earthwork
In Concrete		
		Equipment
		Grate
		Labor
		Materials for Installation
		Paint
		Revegetation
		Steel
		Welding
10.00.7.61	T	T
40-20-7 Closure Exterior	NA	NA
Bars Details		
40.20.0 G	D (10)	C DI
40-20-8 Concrete Block	Portal Closure	Concrete Block
Closure		Earthwork
		Equipment
		Labor
		Materials for Installation
		Mortar
		Paint
		Pipe
		Screen
		Revegetation

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
40-20-9 Concrete Block Closure W/ Human Access	Portal Closure	Concrete Block Door Earthwork Equipment Labor Lock Materials for Installation Mortar Paint Revegetation
40-20-10 Auger Closure W/ Class II Backfill	Auger Hole Closure	Earthwork Equipment Filter Fabric Labor Materials for Installation Revegetation
40-20-11 Closure General Notes	NA	NA
40-30-1 Highwall Restoration	Sheet-Chimney Drain Shotcrete Highwall-Slope Rockfall Netting- Light Duty	Anchors Earthwork Equipment Labor Materials for Installation Steel
40-30-2 Highwall Restoration For Dangerous Overhangs	Sheet-Chimney Drain Pneumatic Backstow- Pea Gravel Shotcrete Highwall-Slope Rockfall Netting- Light Duty	Anchors Concrete Admixture Earthwork Equipment Filter Fabric Labor Materials for Installation Steel Weep hole Pipes

DETAIL	BID ITEMS	MAJOR INCIDENTALS
	(Not all items always required)	
50-10-1 Stabilized	Filter Fabric	Backfill Aggregate
Construction	Geo-Grid	Earthwork
Entrance	Class II / III	Equipment
	HDPE Pipe- Standard	Labor
	HDPE Pipe- Steel Reinforced	Materials for Installation
	CMP	
	Roadway Stone	
50-10-2 Curb Barriers	Curb Barrier	Anchors
		Equipment
		Labor
		Materials for Installation
50-10-3 Bituminous	Bituminous Repair	Equipment
Pavement	Flowable Fill	Labor
Restoration		Materials for Installation
		Subgrade Preparation
50-10-4 Bituminous	RCP	Earthwork
Pavement	Bituminous Repair	Equipment
Restoration W/	Flowable Fill	Labor
Pipe		Materials for Installation
50-10-5 Access Gate - 16'	Access Gate	Concrete
Steel Tube		Equipment
		Lock
		Materials for Installation
50-10-6 Concrete Block-	Concrete	Equipment
Interlocking Mat	Geo-Grid	Formwork
	Roadway Stone	Labor
	Concrete Block- Interlocking Mat	Materials for Installation
		Subgrade Preparation

	BID ITEMS	
DETAIL	(Not all items always required)	MAJOR INCIDENTALS
	( term of the term	1
50-10-7 Temporary Low Water Crossing	Temporary Low Water Crossing	Aggregate Concrete Equipment Labor Materials for Installation Maintenance Pipes Removal and Reclamation Revegetation Subgrade Preparation Temporary Removal & Replacement (Due to high flows)
[50.10.0 m]	I.m	
50-10-8 Temporary Access Bridge	Temporary Access Bridge	Earthwork Equipment Labor Materials for Installation Maintenance Removal and Reclamation
[50 10 015   11 P	Lau, a	
50-10-9 Mountable Berm	Filter Fabric Roadway Stone	Earthwork Equipment Labor Materials for Installation
70 00 1 D 1 : D :		
50-20-1 Debris Barrier Wall- Bale & Plywood	Debris Barrier Wall- Bale & Plywood	Concrete Earthwork Equipment Labor Materials for Installation
50-20-2 Debris Barrier Wall- Permanent	Grout Concrete Soil Drilling Rock Drilling Casing Schedule 80 Pipe Steel Panels	Equipment Labor Materials for Installation Paint

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
50-20-3 Guardrail Panel Wall- Steel Piles	Grout No. 2 Stone Backfill Class II Backfill Soil Drilling Rock Drilling Casing Railroad Rails. Steel Piles (W## X ###) Steel Panels Guardrail Lagging	Equipment Labor Materials for Installation Paint
50-20-4 Guardrail Panel Wall- Pipe Support	Grout Soil Drilling Rock Drilling Casing Schedule 80 Pipe Steel Panels Guardrail Lagging	Equipment Labor Materials for Installation Paint
50-20-5 Chain-Link Fence	Chain-Link Fence	Concrete Equipment Labor Materials for Installation
50-20-6 Woven-Wire Fence	Woven-Wire Fence	Concrete Equipment Labor Materials for Installation
50-20-7 Concrete Jersey Barrier	Concrete Jersey Barrier	Anchors Equipment Labor Materials for Installation
50-20-8A Steel Beam Guardrail	Steel "W" Beam Guardrail Barrier	Equipment Labor Materials for Installation
50-20-8B Guardrail Components	NA	NA
50-20-8C Guardrail Post- Steel	NA	NA

DETAIL	BID ITEMS (Not all items always required)	MAJOR INCIDENTALS
50-20-8D Guardrail Post- Timber	NA	NA
50-20-9 Guardrail Terminal Section	Guardrail Terminal Section	Equipment Labor Materials for Installation

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DETAIL	BID ITEMS	MAJOR INCIDENTALS
DETAIL	(Not all items always required)	WINDON INCIDENTIALS
70-10-1 Slope or	Hoe Ram	Equipment
Embankment	Earthwork	Labor
Foundation		
Benches		
70-10-2 Slope	Filter Fabric	Equipment
Reconstruction	No. 57 Stone Backfill	Labor
Reconstruction	No. 2 Stone Backfill	Materials for Installation
	Hoe Ram	Waterials for installation
	Earthwork	
	Erosion Control Blanket- ECB	
	Class II / III	
	Cyclopean Rip-Rap	
	Onsite Rock	
70.10.2 P		In .
70-10-3 Benches	Earthwork	Equipment
		Labor
70.10.40	T	In .
70-10-4 Cover Material	Earthwork	Equipment
Placement	Agricultural Limestone	Labor
		Materials for Installation
70-10-5 ECB Slope	Erosion Control Blanket- ECB	NA
Installation		1171
70-20-1 Gate Valve And	Added When Needed	Added When Needed
Housing	ridded wildii recucu	Added When I teeded
70-20-2 Flume- Timber	Added When Needed	Added When Needed
70-20-3 Spreader Bar	Added When Needed	Added When Needed
Baffle	Audeu when needed	Added when Needed
70-30-1 Gabion Basket	NT A	NT A
Assembly	NA	NA
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